



INQUIRY #: 1990389.1

YEAR: 1977



— = 1000'



INQUIRY #: 1990389.1

YEAR: 1990

— = 1000'





INQUIRY #: 1990389.1

YEAR: 1990

— = 1000'



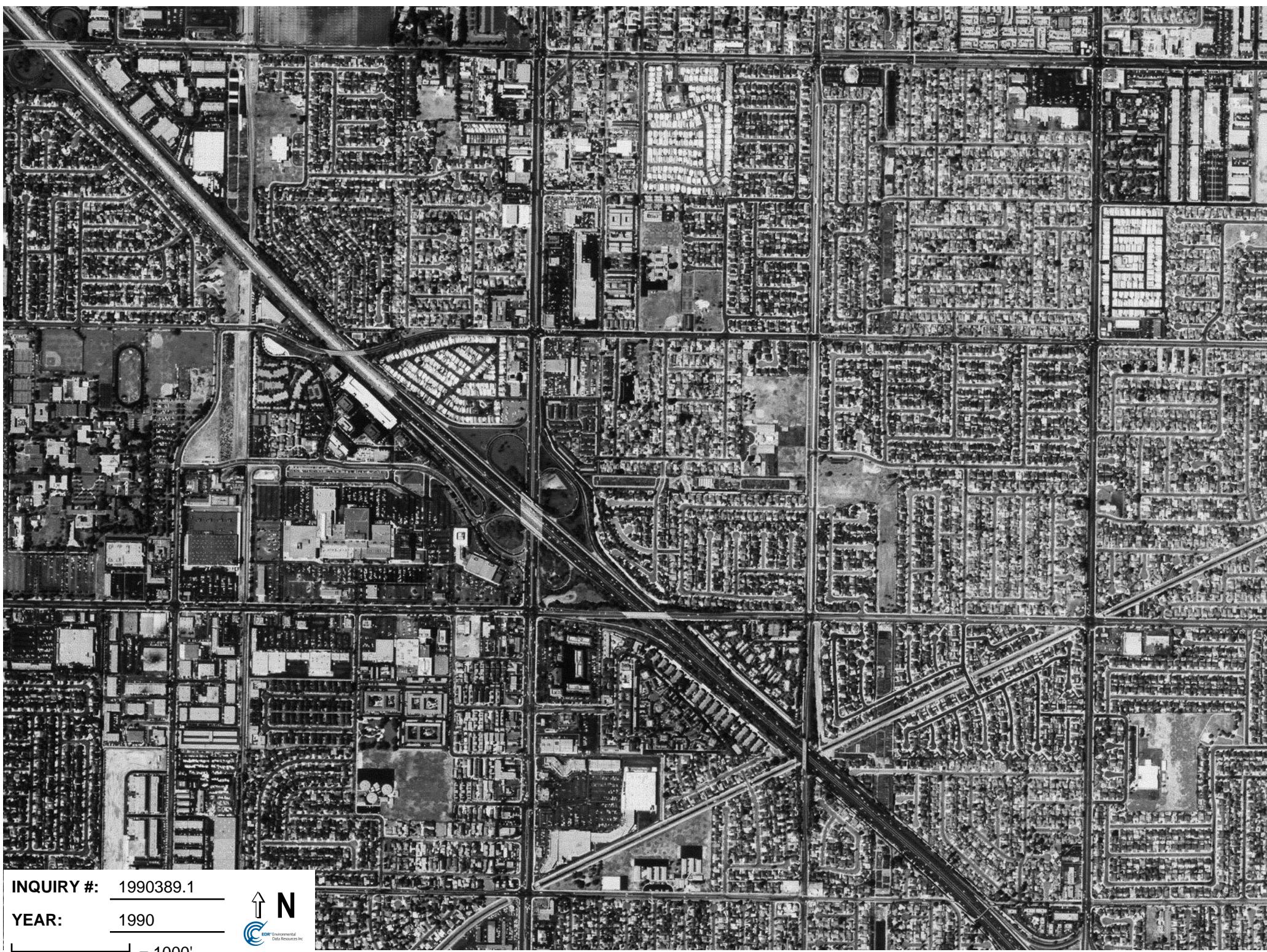


INQUIRY #: 1990389.1

YEAR: 1990

1 = 1000'





INQUIRY #: 1990389.1

YEAR: 1990

= 1000'





INQUIRY #: 1990389.1

YEAR: 1990

— = 1000'





INQUIRY #: 1990389.1

YEAR: 1990

— = 1000'





INQUIRY #: 1990389.1

YEAR: 1989

— = 1000'





INQUIRY #: 1990389.1

YEAR: 1995

— = 1000'





INQUIRY #: 1990389.1

YEAR: 1994

— = 1000'





INQUIRY #: 1990389.1  
YEAR: 1994  
| = 1000'





INQUIRY #: 1990389.1

YEAR: 1994

— = 1000'





INQUIRY #: 1990389.1  
YEAR: 1994  
= 1000'





INQUIRY #: 1990389.1  
YEAR: 1994  
| = 1000'





INQUIRY #: 1990389.1



YEAR: 1994

— = 1000'



INQUIRY #: 1990389.1  
YEAR: 2002  
= 1000'



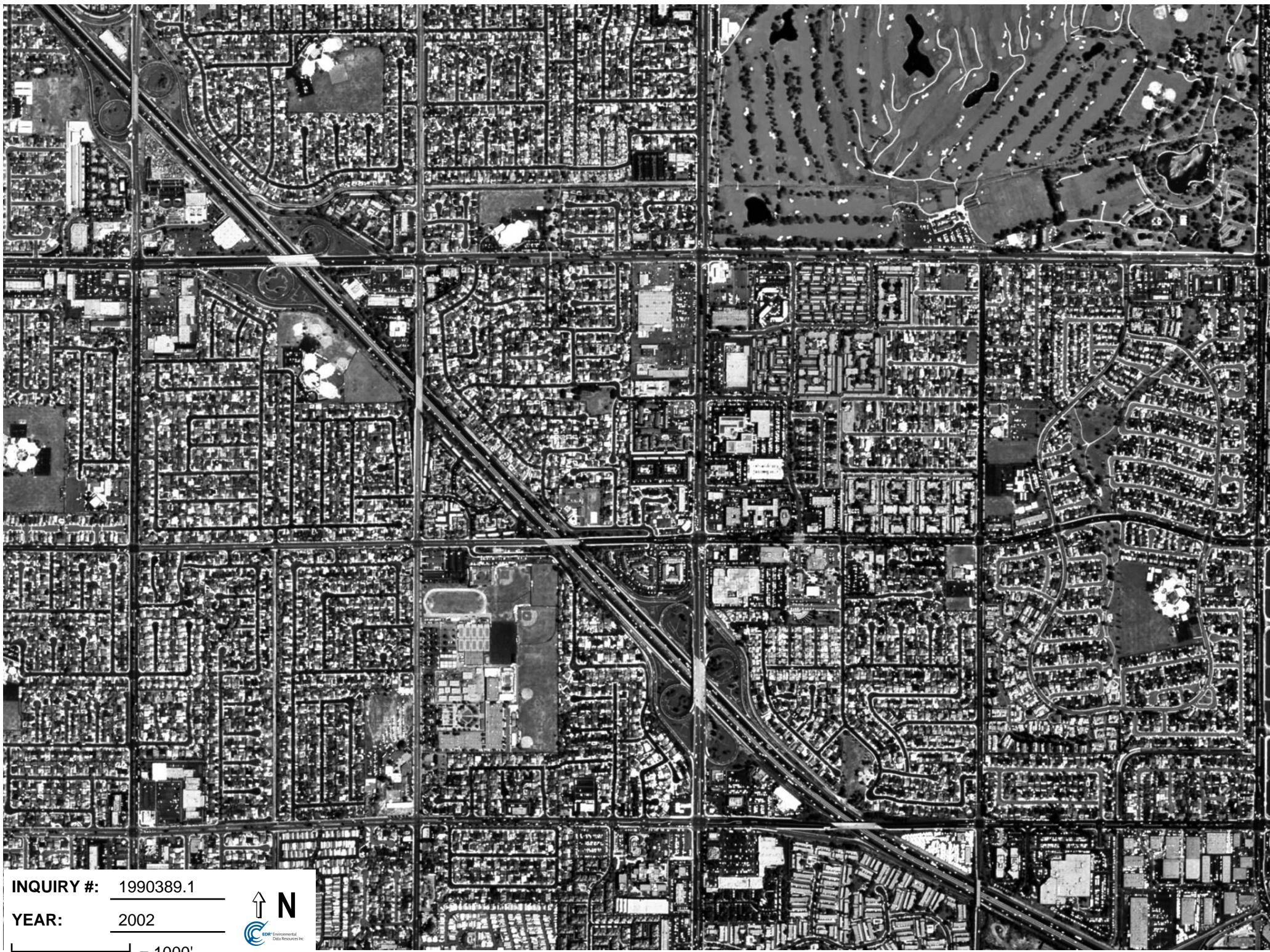


INQUIRY #: 1990389.1

YEAR: 2002

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INQUIRY #: 1990389.1

YEAR: 2002

— = 1000'





INQUIRY #: 1990389.1

YEAR: 2002

— = 1000'





INQUIRY #: 1990389.1

YEAR: 2002

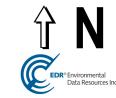
— = 1000'





INQUIRY #: 1990389.1

YEAR: 2002



= 1000'



INQUIRY #: 1990389.1

YEAR: 2002

— = 1000'



N

CDR Environmental  
Data Resources Inc.

APPENDIX D  
AGENCY DOCUMENTATION  
(Submitted Electronically)

**FIGURE 4**

Site Map Showing TCE, PCE, BTEX, and MTBE  
on Shallow Groundwater

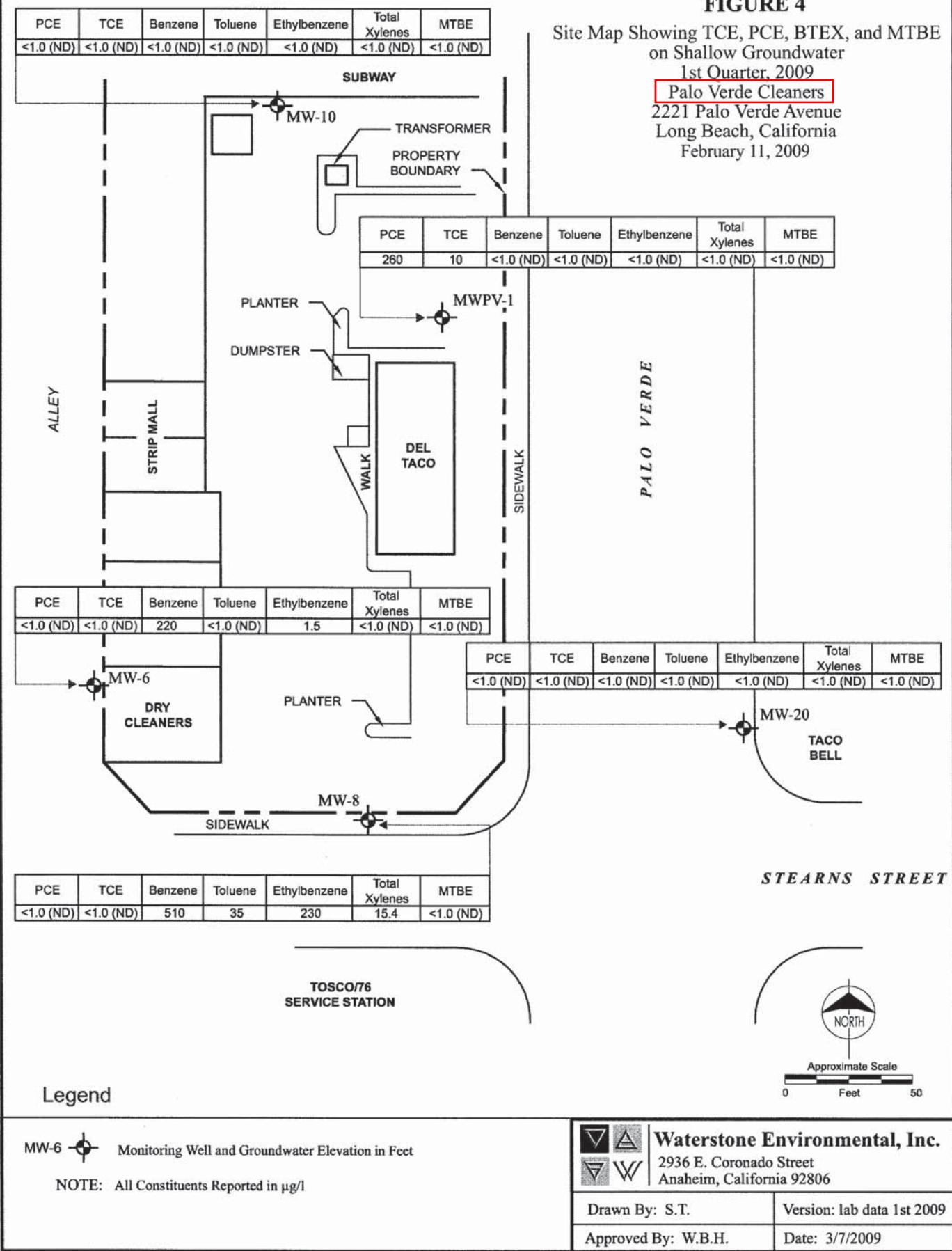
1st Quarter, 2009

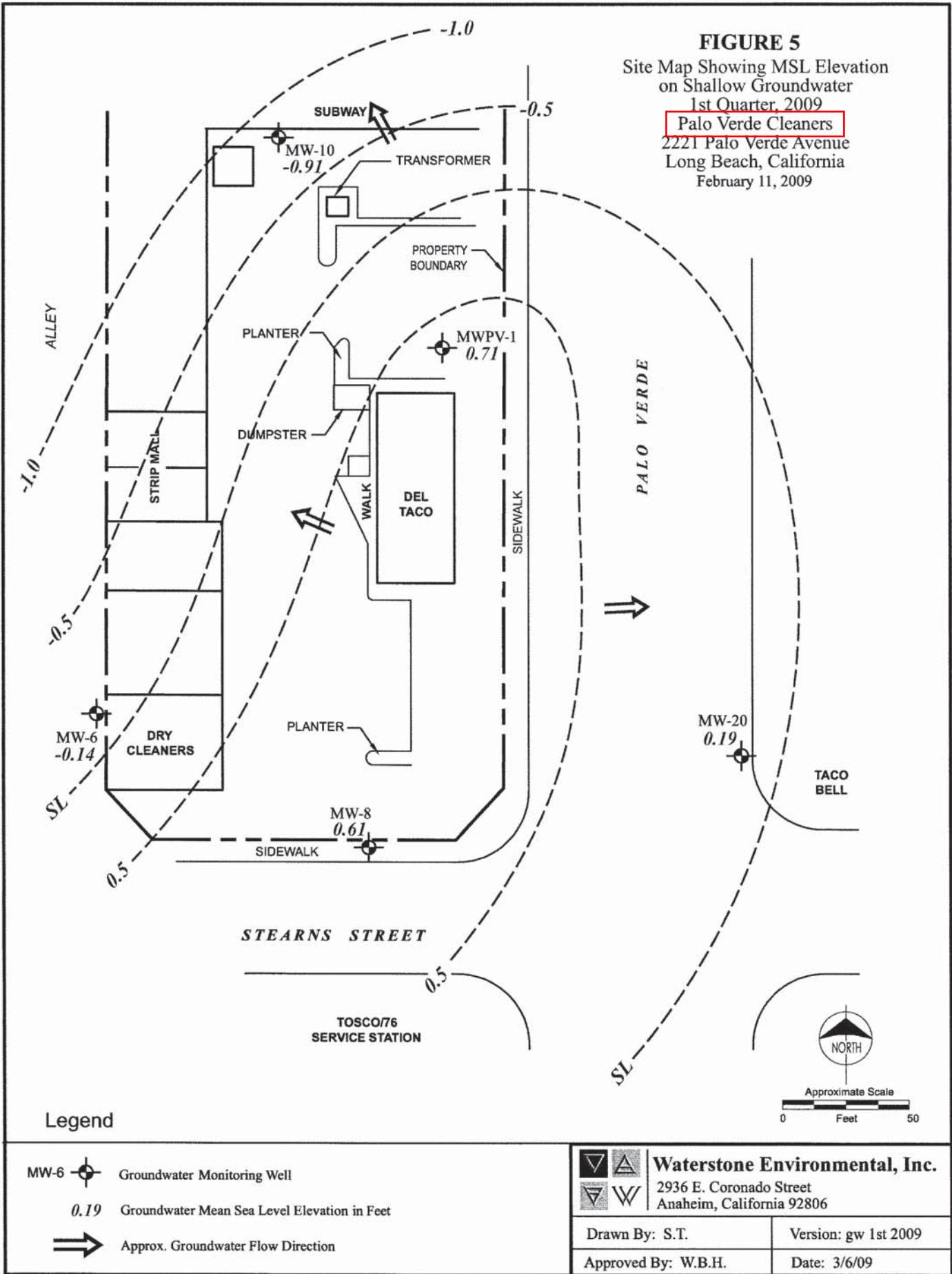
Palo Verde Cleaners

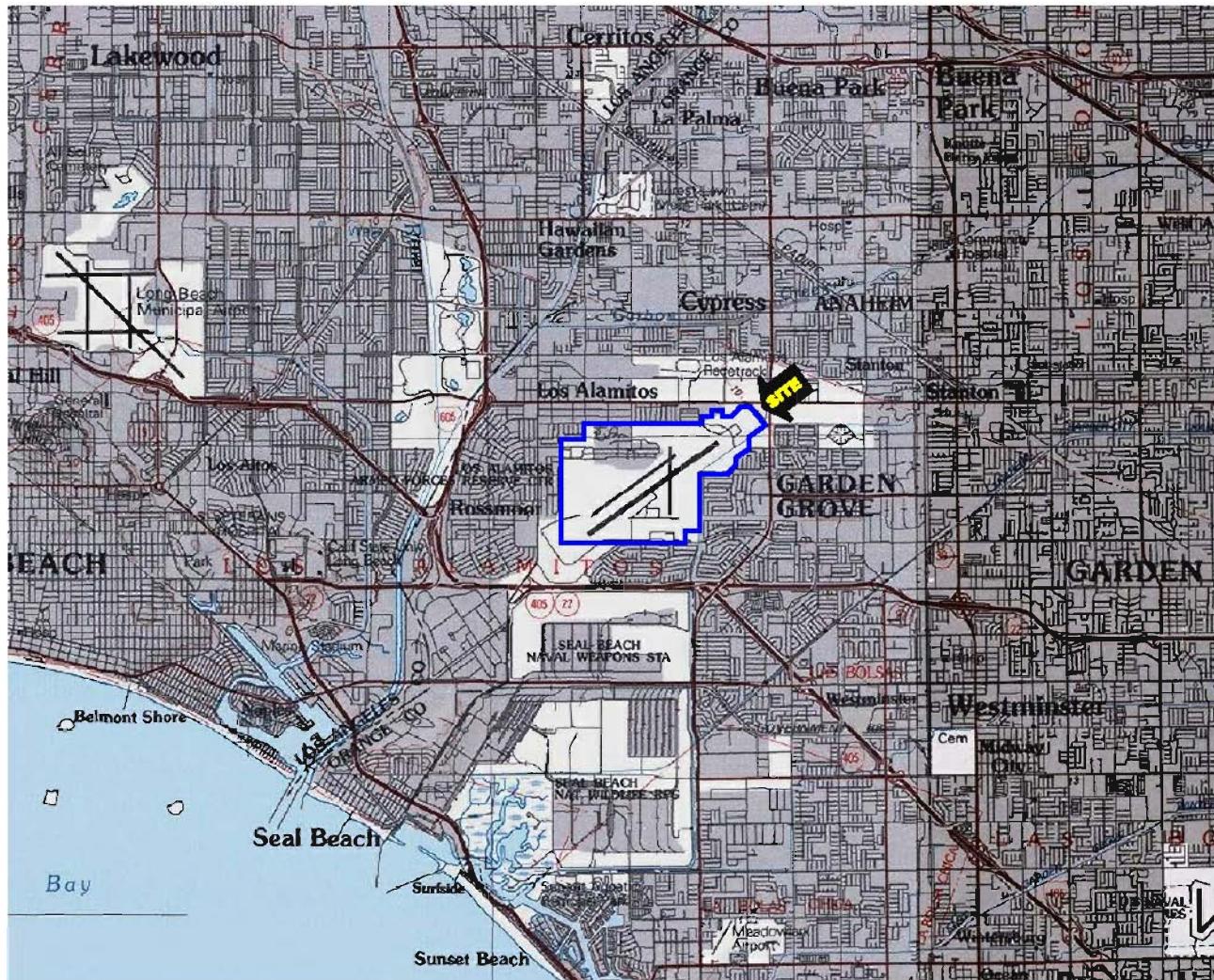
2221 Palo Verde Avenue

Long Beach, California

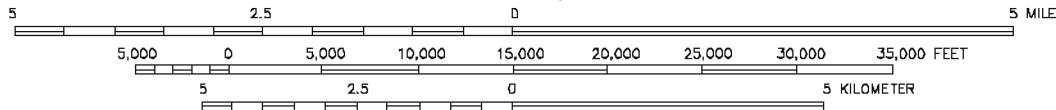
February 11, 2009







SCALE 1:120,000



Portion of 7.5-minute Series (Topographic) Map  
United States Department of the Interior  
Geological Survey  
Los Alamitos, California Quadrangle 1978



**Clayton Group Services, Inc.**

A Bureau Veritas Company  
1565 MacArthur Boulevard  
Costa Mesa, CA 92626

Main: (714) 431-4100  
Fax: (714) 825-0685  
[www.us.bureauveritas.com](http://www.us.bureauveritas.com)

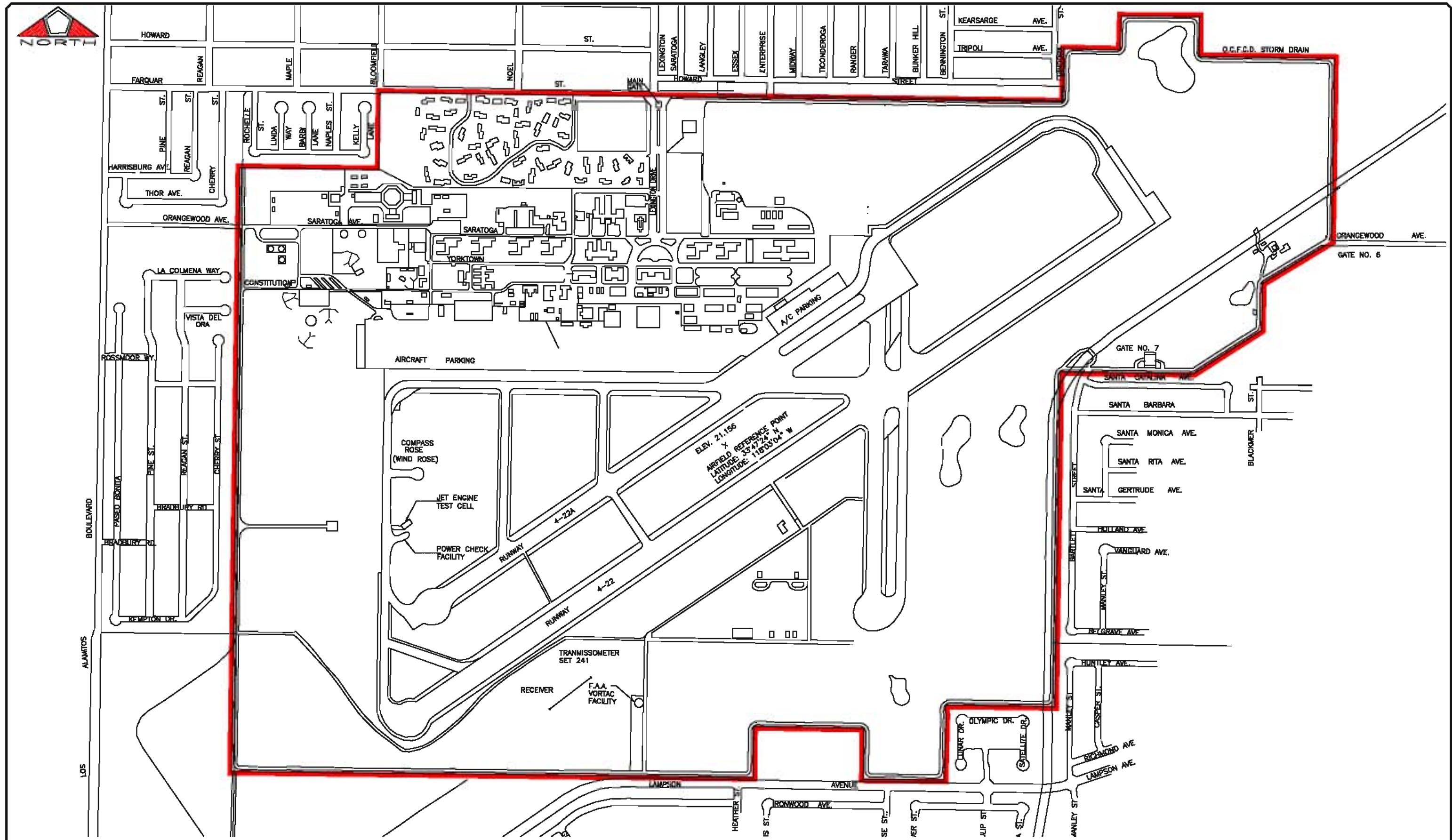
DATE:	02/14/07
DRAWN BY:	BJH
CHECKED BY:	GV
PROJECT NO.:	25006-006155.06
CAD NO.:	06Q4-2-01

VICINITY MAP

JOINT FORCES TRAINING BASE  
LOS ALAMITOS, CALIFORNIA

FIGURE

2-1

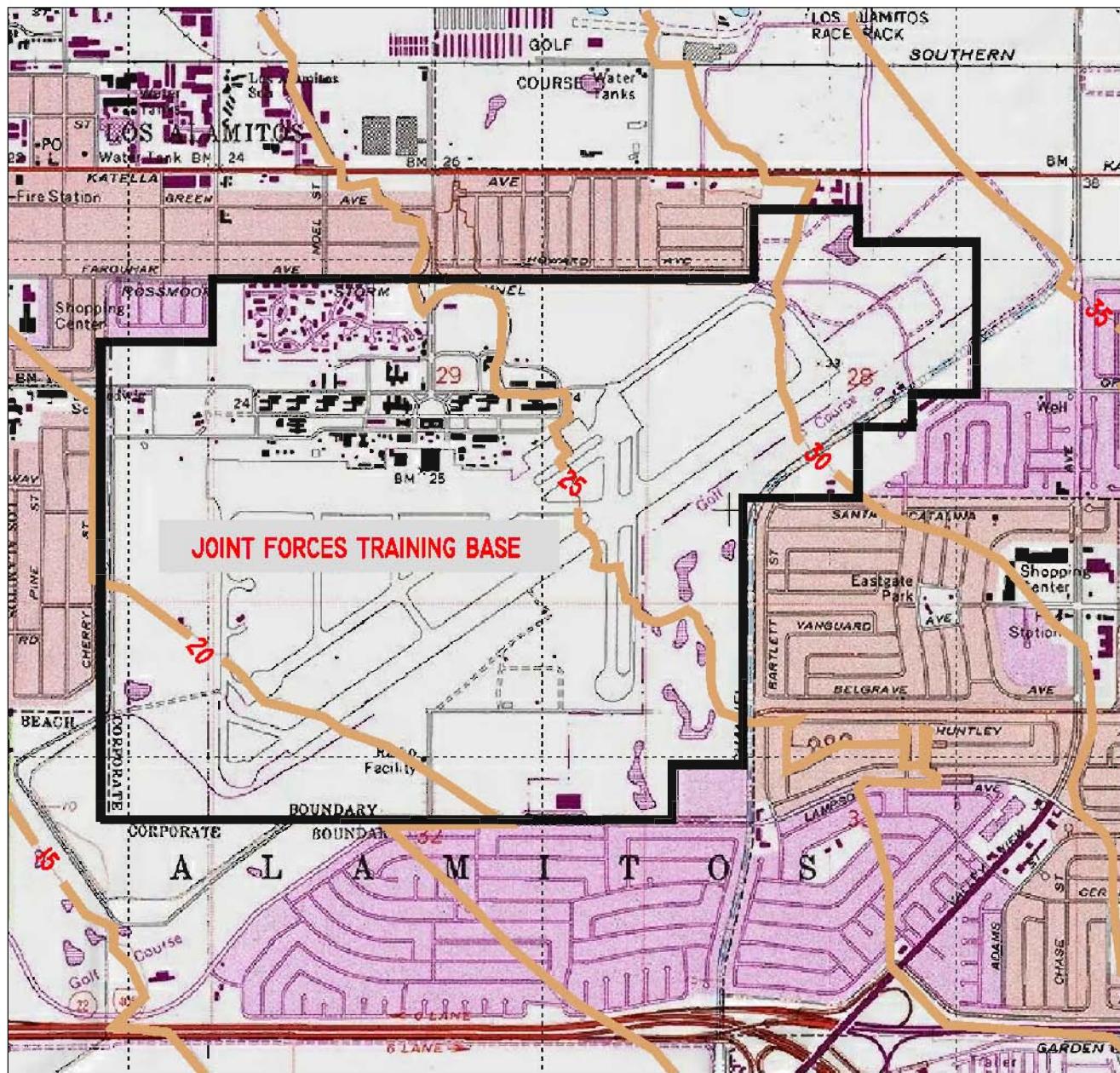


Clayton Group Services, Inc.  
A Bureau Veritas Company  
1565 MacArthur Boulevard  
Costa Mesa, CA 92626  
Phone: (714) 431-4190  
Fax: (714) 825-9685  
[www.us.bureauveritas.com](http://www.us.bureauveritas.com)

DATE:	02/14/07
DRAWN BY:	TP
CHECKED BY:	GV
PROJECT NO.:	25006-006155.06
CAD NO.:	06Q4-2-02

## OVERVIEW MAP

JOINT FORCES TRAINING BASE  
LOS ALAMITOS, CALIFORNIAFIGURE  
2-2



SCALE 1:24,000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

Portion of 7.5-minute Series (Topographic) Map  
United States Department of the Interior  
Geological Survey  
Long Beach, California Quadrangle  
1964 (Photorevised 1981)



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[www.us.bureauveritas.com](http://www.us.bureauveritas.com)

DATE:	02/14/07
DRAWN BY:	BJH
CHECKED BY:	TP
PROJECT NO.:	25006-006155.06
CAD NO.:	06Q4-2-03

GENERAL SITE TOPOGRAPHY

JOINT FORCES TRAINING BASE  
LOS ALAMITOS, CALIFORNIA

FIGURE  
2-3



AOC 5

AOC 1

AOC 3

AOC 6

AOC 9

AOC 2

AOC 7

AOC 1/SITE	AOC 2/SITE	AOC 3/SITE	AOC 4/SITE	AOC 5/SITE	AOC 6/SITE	AOC 7/SITE	AOC 8/SITE	AOC 9/SITE
JP-4 Tank Farm	Landfill Wastewater Treatment System Wastewater Treatment Lagoon Jet Engine Test Cell Windrose Aircraft Buffer Zone	CFR Training Pits Revetments West End of the Flightline	Underground Storage Tanks (USTs) (Basewide) Building 158 Former Aviation Fuel Farm	Nosedock 61 Nosedock 61 Clarifier Vehicle Depot Clarifier Seabee Compound Fuel Farm Office ECS-16 (Building 272) OMS Clarifier 40th Military Police Compound	Motor Pool Paint Spray Booth Gymnasium Clarifier Hangar 1 Hangar 2 Munitions Bunkers Flightline Pads 1 & 2 Building 9	Former Rifle Range	Areas of Pesticide Use (Basewide)	Building 34 Building 35 Flightline Maintenance DEH Clarifier DEH Washrack

0 1,000  
SCALE (FEET)



Clayton Group Services, Inc.  
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Costa Mesa, CA 92626  
Phone: (714) 431-4100  
Fax: (714) 825-9625  
[www.us.bureauveritas.com](http://www.us.bureauveritas.com)

DATE: 02/20/07  
DRAWN BY: TP/BJH  
CHECKED BY: GV  
PROJECT NO.: 25006-006155.06  
CAD NO.: 06Q4-3-01

AREAS OF CONCERN (AOC)  
JOINT FORCES TRAINING BASE  
LOS ALAMITOS, CALIFORNIA

FIGURE  
3-1

# THRIFTY OIL CO.

April 9, 2009

O-95702

Ms. Julie Wozencraft  
Hazardous Materials Mitigation Section  
Orange County Health Care Agency  
Environmental Health Division  
1241 E. Dyer Road, Suite 120  
Santa Ana, CA 92705-5611

**Re:** Thrifty Oil Co. Station #368  
(ARCO #9734)  
**6311 Westminster Boulevard**  
**Westminster, California 92683**

**OCHCA Case No. 88UT166**  
**Global ID. T0605900832**  
**EDF Conf. # 2366768956**

**Subject: Quarterly Status Report – 1<sup>st</sup> Quarter 2009**

Dear Ms. Wozencraft:

Please find enclosed herewith the Quarterly Status Report for Thrifty Oil Co. Station #368, located at 6311 Westminster Boulevard in Westminster, California. Based on results from previous SVE system pulsing operations onsite which indicated very low to non-detectable concentrations of hydrocarbons remained as soil vapor, it appears that remediation operations have been very effective at cleaning up the site. Concentrations of MTBE and TBA in groundwater are mostly non-detect; and residual BTEX concentrations are likely to biodegrade and should continue to attenuate naturally over time. The contaminant plume beneath the site appears to be stable and shrinking, and we believe no further action is appropriate for this site. Thrifty will continue with groundwater overpurging of selected wells at the site for one additional quarter and evaluate results of next quarter's sampling event. If hydrocarbon concentrations detected in wells at that time are comparable to this quarter's results, then Thrifty will request again for the OCHCA to consider this site for regulatory case closure.

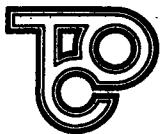
If you should have any questions or comments regarding this transmittal, please do not hesitate to contact either Jack Kosztowny or myself at (562) 921-3581.

Sincerely,



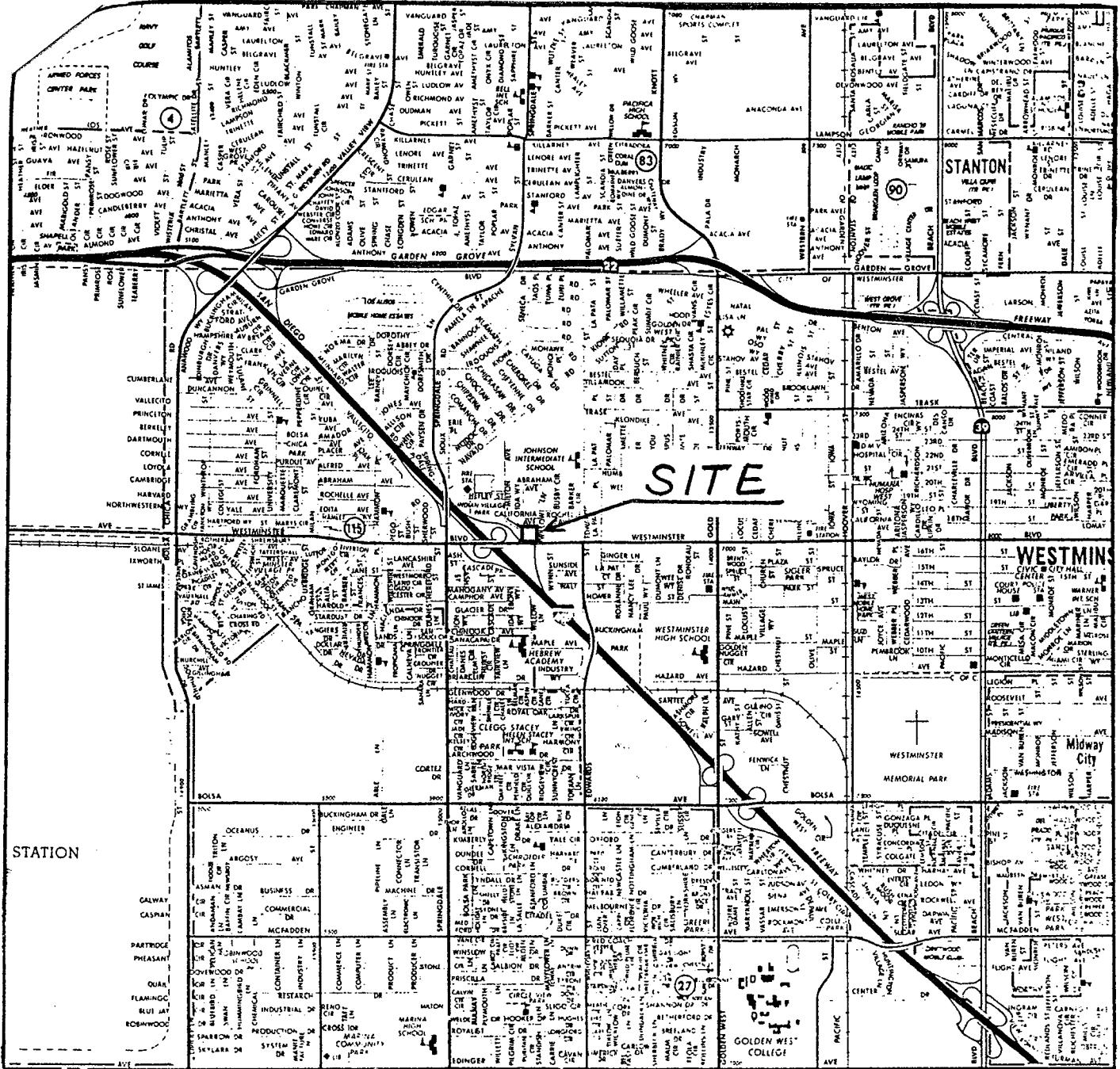
Chris Panaitescu  
General Manager  
Environmental Affairs

cc: Ms. Valerie Jahn-Bull, Santa Ana Regional Water Quality Control Board  
Mr. Dan Fischman, ConocoPhillips  
BP West Coast Products LLC  
File



13116 Imperial Highway, Santa Fe Springs, CA 90670 • (562) 921-3581

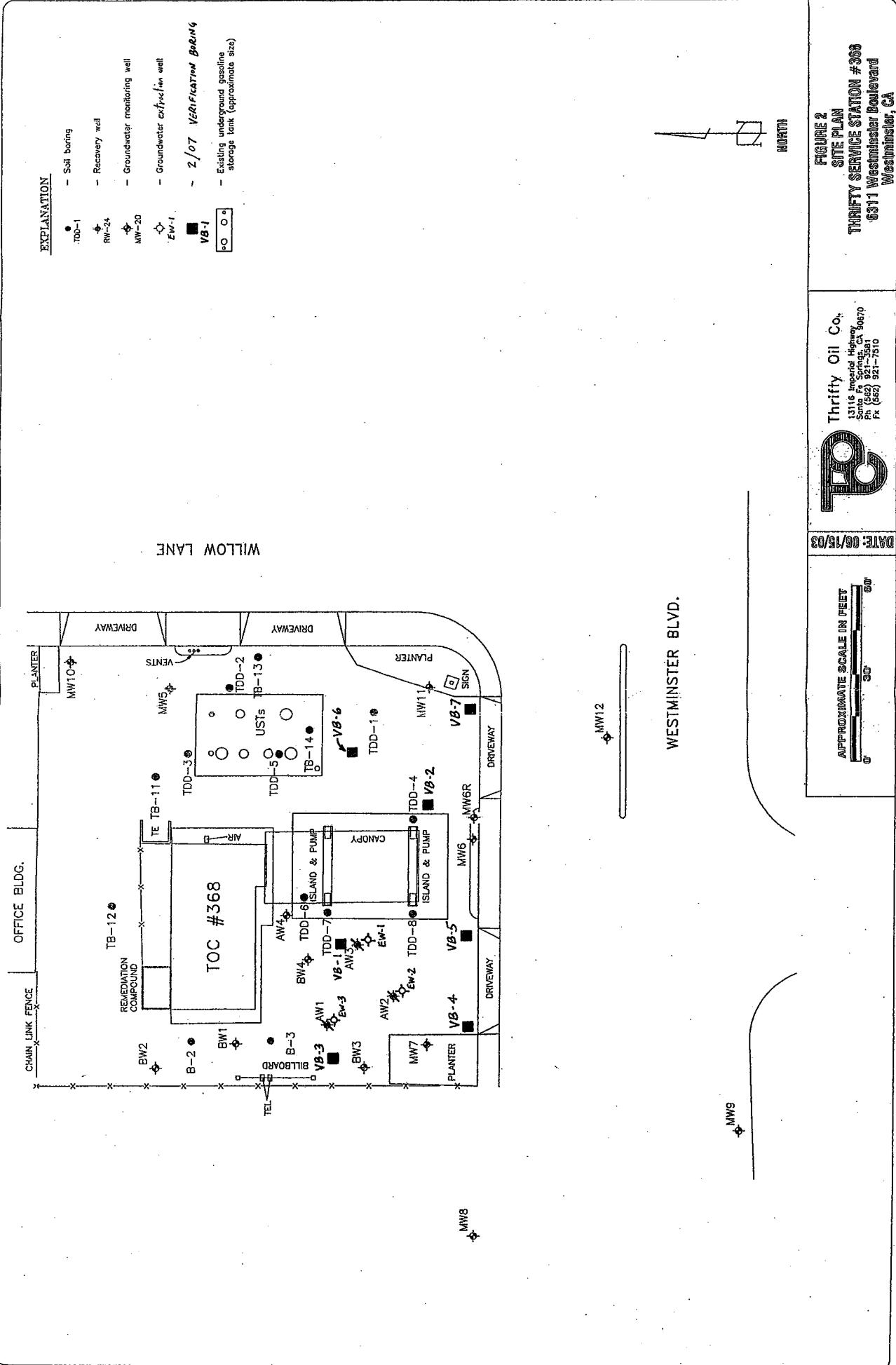
## ***FIGURES***



## LOCATION MAP

SS # 368

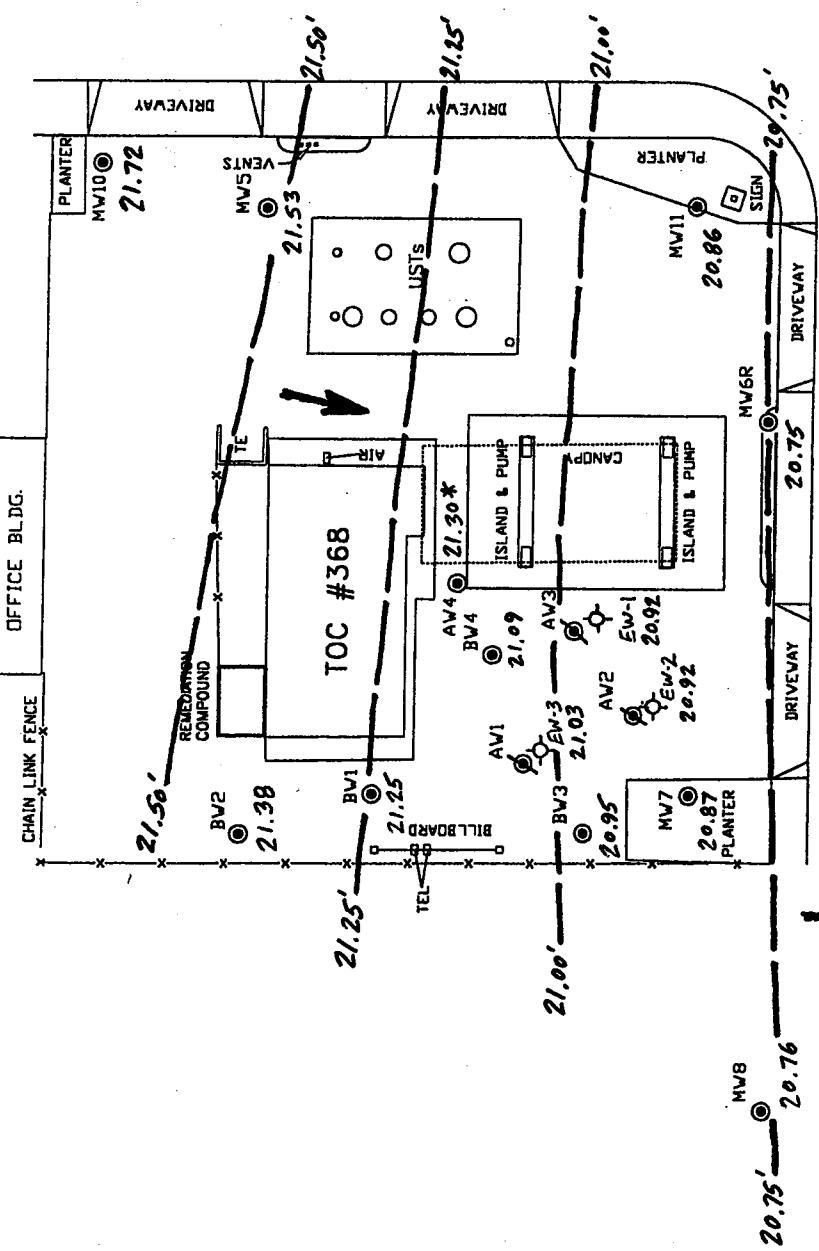
FIG #1



GROUNDWATER ELEVATION CONTOUR  
REPRESENTING APPROXIMATE  
ELEVATION ABOVE MEAN SEA LEVEL,  
DASHED WHERE INFERRED

GROUNDWATER FLOW DIRECTION

## WILLOW LANE



20.00' —————— 20.00' WESTMINSTER BLVD.

20.26 MW12  
————— 20.25'

20.50' —————— 20.50'

19.75 MW9  
————— 19.75'

0 40 80  
APPROXIMATE SCALE IN FEET

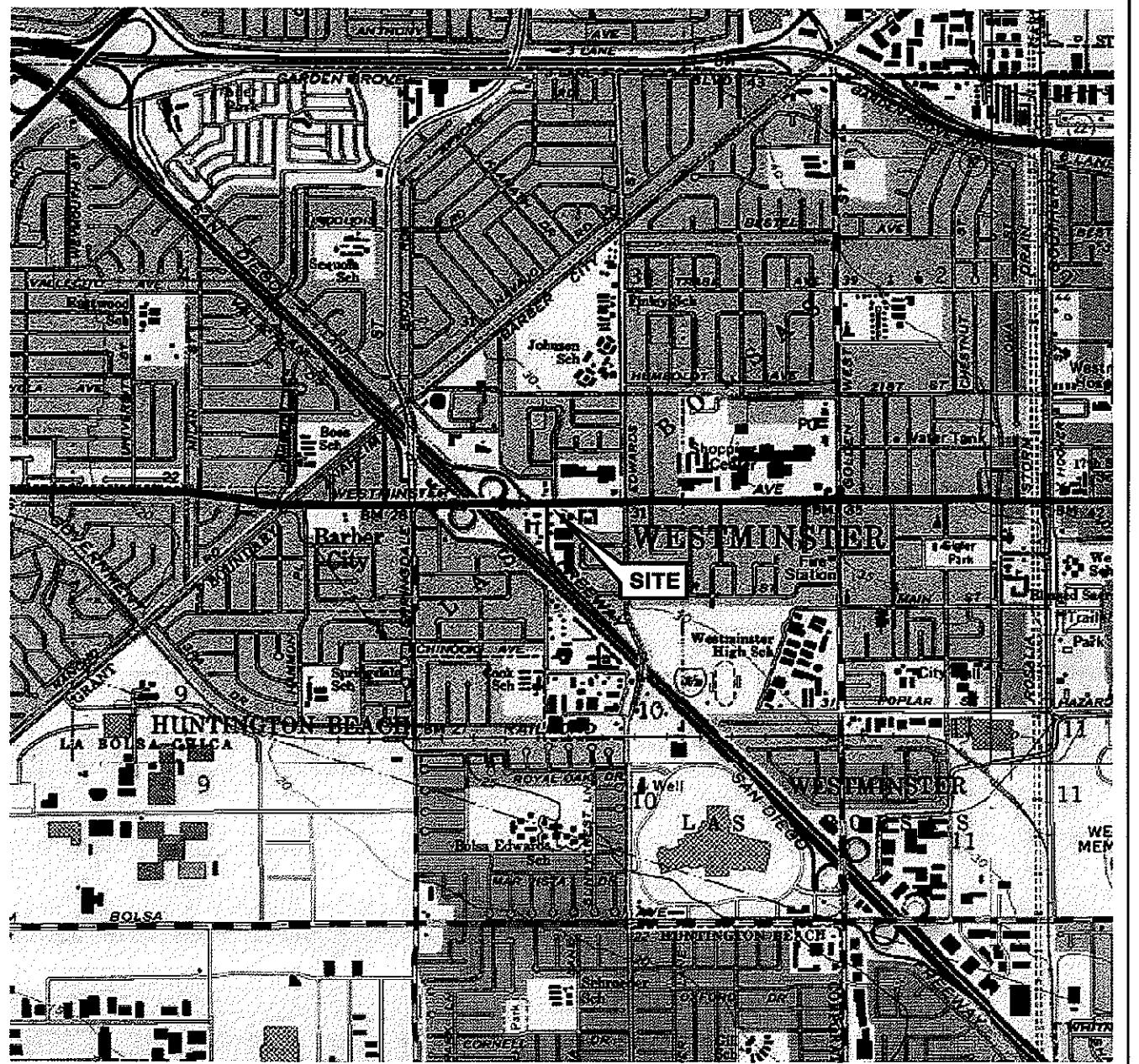
LEGEND:

◎ = GROUNDWATER MONITORING WELL  
\* - Deeper screened well; Elevation not contoured



GROUNDWATER GRADIENT  
THRIFTY OIL CO. STATION NO. 368  
6311 WESTMINSTER BOULEVARD  
WESTMINSTER, CALIFORNIA

FIGURE  
3



0      1/4      1/2      3/4      1 MILE

SCALE 1:24,000



SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Los Alamitos Quadrangle



QUADRANGLE  
LOCATION

FACILITY:

76 STATION 5226  
6322 WESTMINSTER BLVD  
WESTMINSTER, CALIFORNIA

VICINITY MAP



**FIGURE 1**

**LEGEND**

MW-17 76 Station Monitoring Well with Groundwater Elevation (feet)

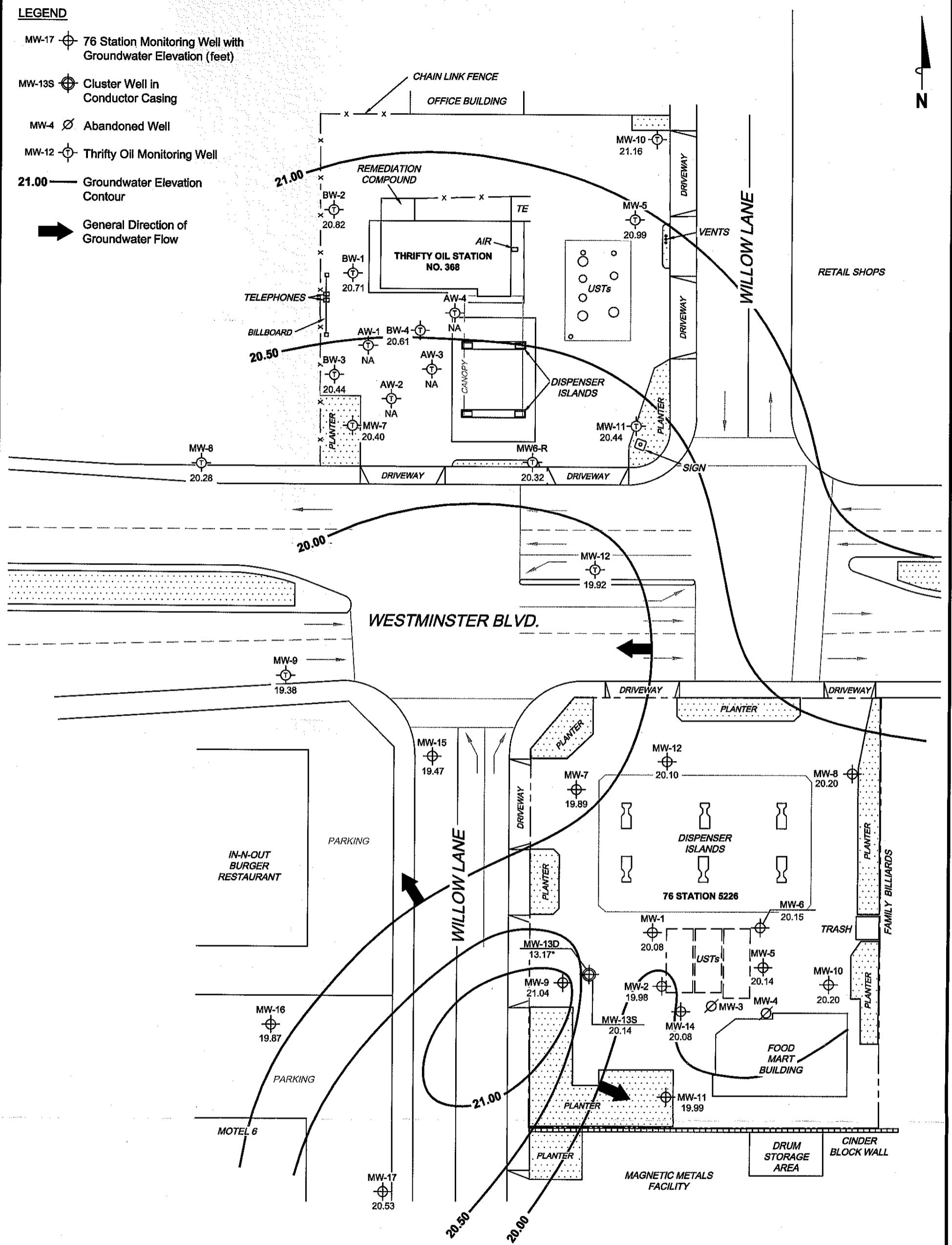
MW-13S Cluster Well in Conductor Casing

MW-4 Abandoned Well

MW-12 Thrifty Oil Monitoring Well

21.00 — Groundwater Elevation Contour

General Direction of Groundwater Flow

**NOTES:**

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. \* = not included in contour interpretation. UST = underground storage tank. Thrifty Oil Station data provided by Thrifty Oil.

SCALE (FEET)



PROJECT: 165520

FACILITY:

76 STATION 5226  
6322 WESTMINSTER BLVD  
WESTMINSTER, CALIFORNIA

**GROUNDWATER ELEVATION  
CONTOUR MAP**  
June 23, 2009

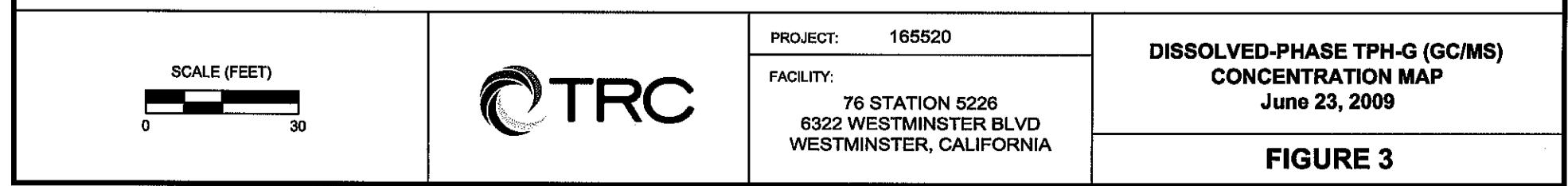
**FIGURE 2**

## LEGEND



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B. TPH-G = total petroleum hydrocarbons as gasoline.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Thrifty Oil Station data provided by Thrifty Oil. TPH-G results obtained using EPA Method 8015.



LEGEND

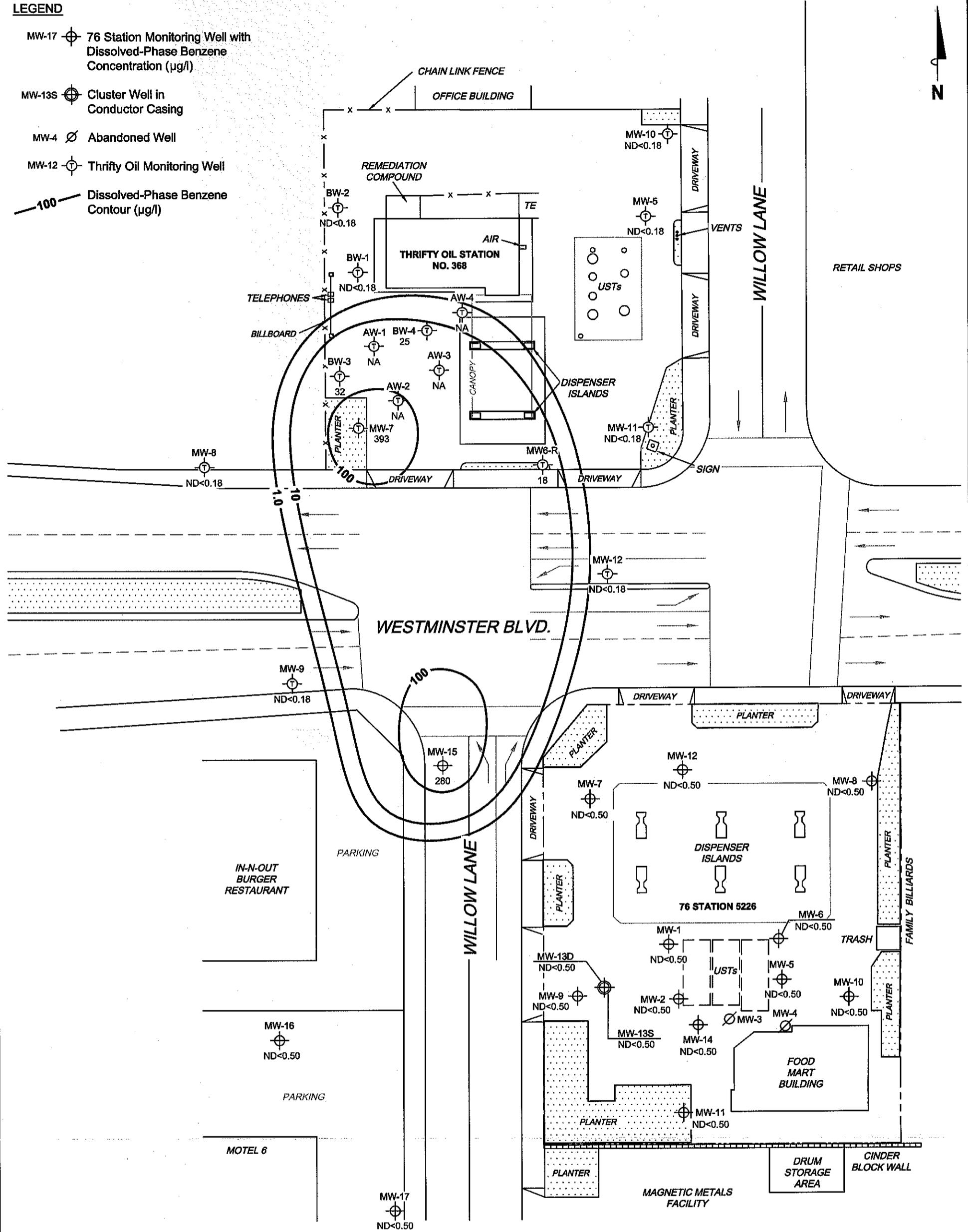
MW-17 76 Station Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g/l}$ )

MW-13S Cluster Well in Conductor Casing

MW-4 Abandoned Well

MW-12 Thrifty Oil Monitoring Well

**100** Dissolved-Phase Benzene Contour ( $\mu\text{g/l}$ )



PROJECT: 165520

FACILITY:

76 STATION 5226  
6322 WESTMINSTER BLVD  
WESTMINSTER, CALIFORNIA

DISSOLVED-PHASE BENZENE  
CONCENTRATION MAP

June 23, 2009

SCALE (FEET)  
0 30

TRC

FIGURE 4

## LEGEND

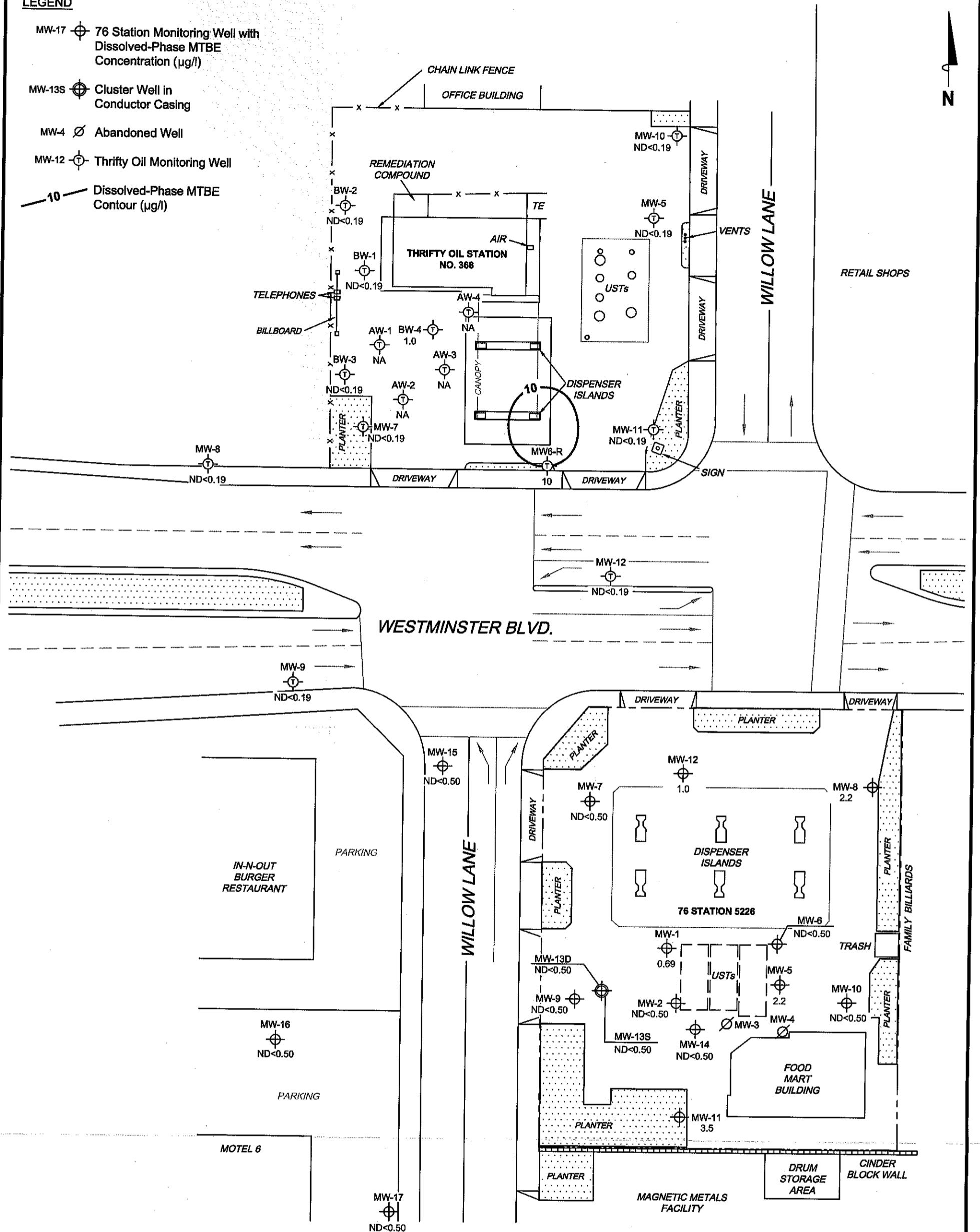
- MW-17 76 Station Monitoring Well  
Dissolved-Phase MTBE  
Concentration ( $\mu\text{g/l}$ )

MW-13S Cluster Well in  
Conductor Casing

MW-4 Abandoned Well

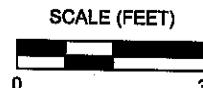
MW-12 Thrifty Oil Monitoring Well

10 Dissolved-Phase MTBE  
Contour ( $\mu\text{g/l}$ )



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B. Thrifty Oil Station data provided by Thrifty Oil.



PROJECT: 165520

---

FACILITY:

76 STATION 5226  
6322 WESTMINSTER BLVD  
WESTMINSTER, CALIFORNIA

**DISSOLVED-PHASE MTBE  
CONCENTRATION MAP**

## **FIGURE 5**

## LEGEND

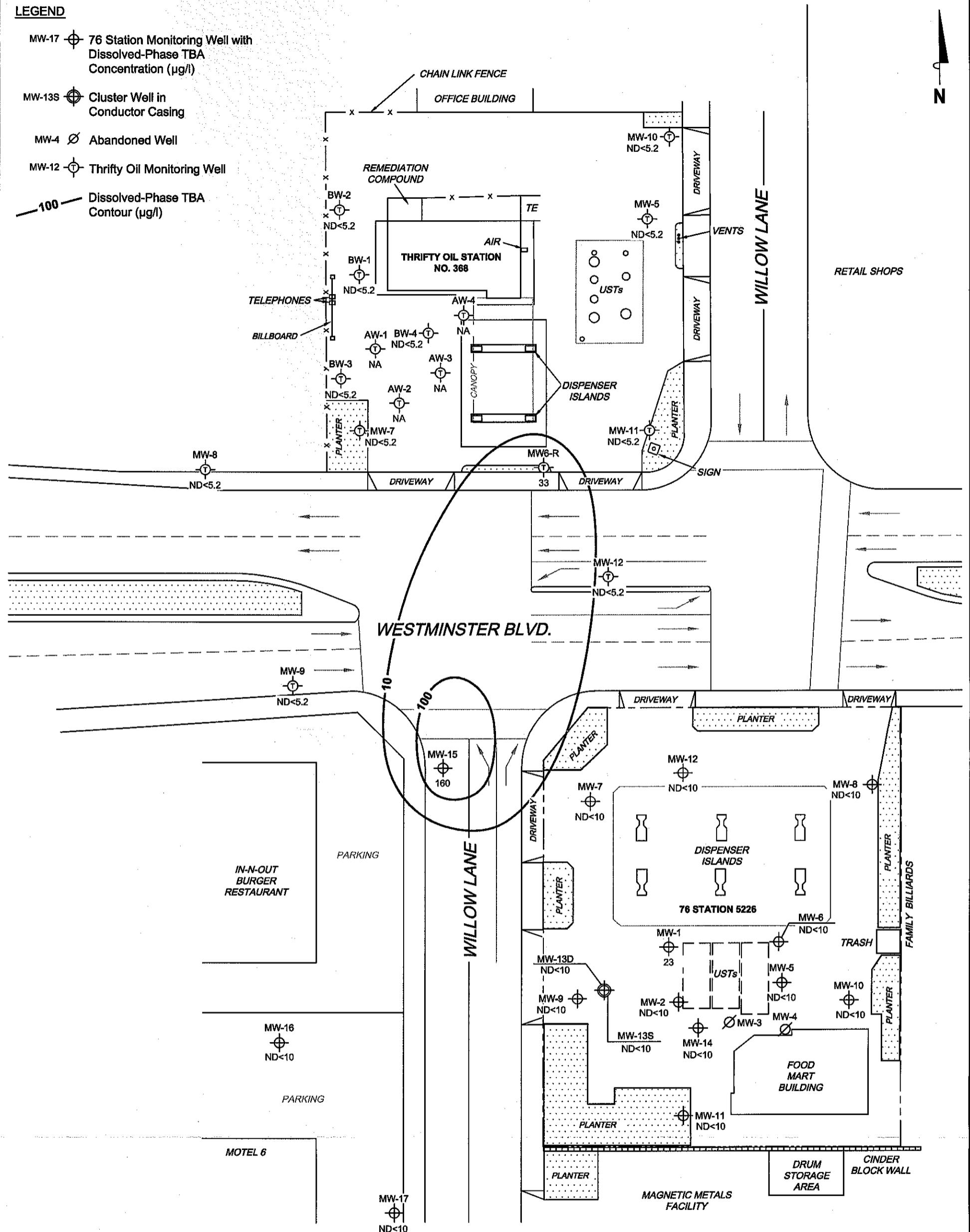
- MW-17  76 Station Monitoring Well with  
Dissolved-Phase TBA  
Concentration ( $\mu\text{g/l}$ )

MW-13S  Cluster Well in  
Conductor Casing

MW-4  Abandoned Well

MW-12  Thrifty Oil Monitoring Well

 Dissolved-Phase TBA  
Contour ( $\mu\text{g/l}$ )



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TBA = tertiary butyl alcohol.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B. Thrifty Oil Station data provided by Thrifty Oil.



PROJECT: 165520  
FACILITY:  
76 STATION 5226  
6322 WESTMINSTER BLVD  
WESTMINSTER, CALIFORNIA

**DISSOLVED-PHASE TBA  
CONCENTRATION MAP**

## **FIGURE 6**

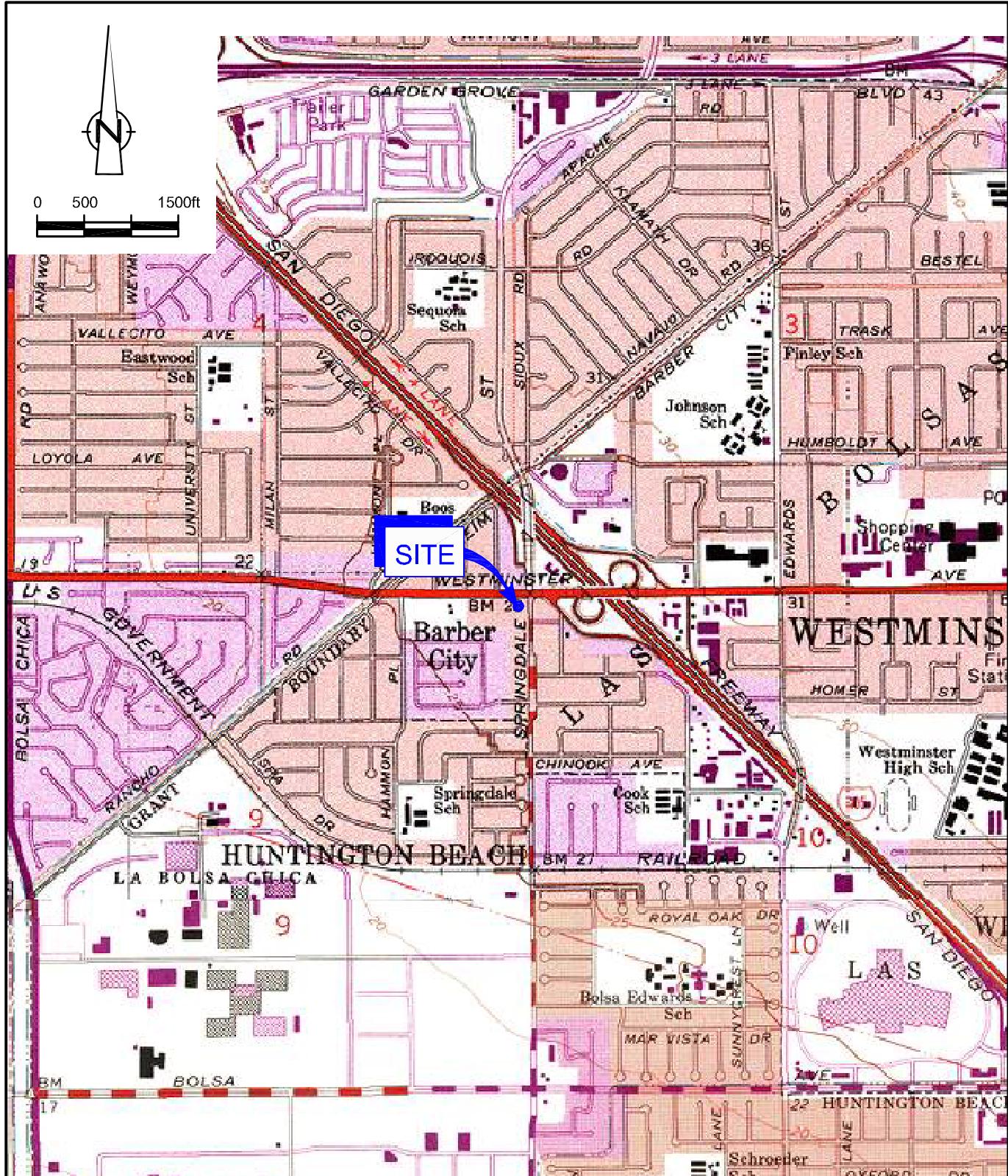


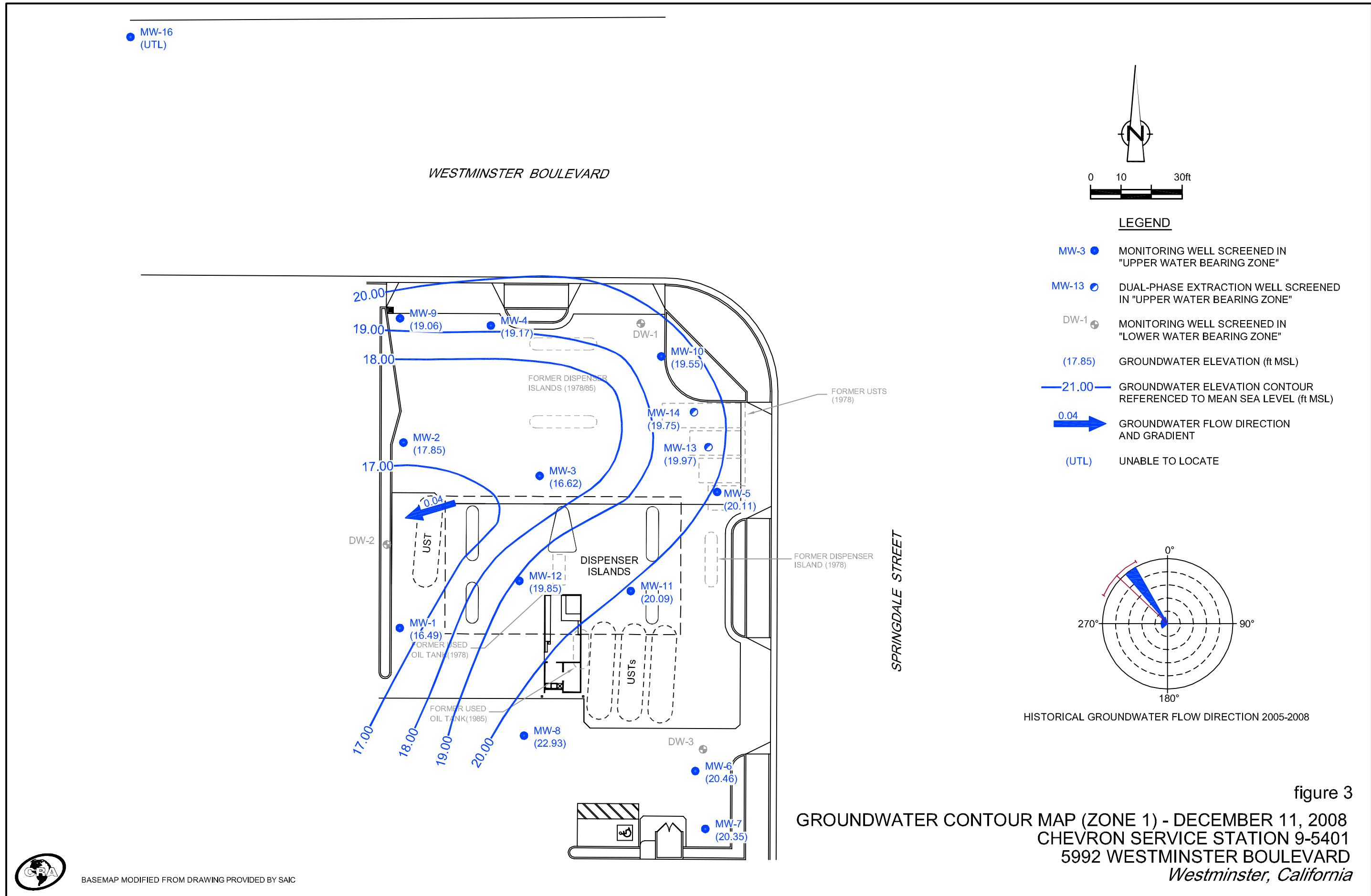
figure 1

VICINITY MAP  
CHEVRON SERVICE STATION 9-5401  
5992 WESTMINSTER BOULEVARD  
*Westminster, California*



SOURCE: TOPO! MAPS

632288-115(PRES001)GN-WA001 OCT 30/2007



632288-120(4Q08)GN-WA001 JAN 22/2009

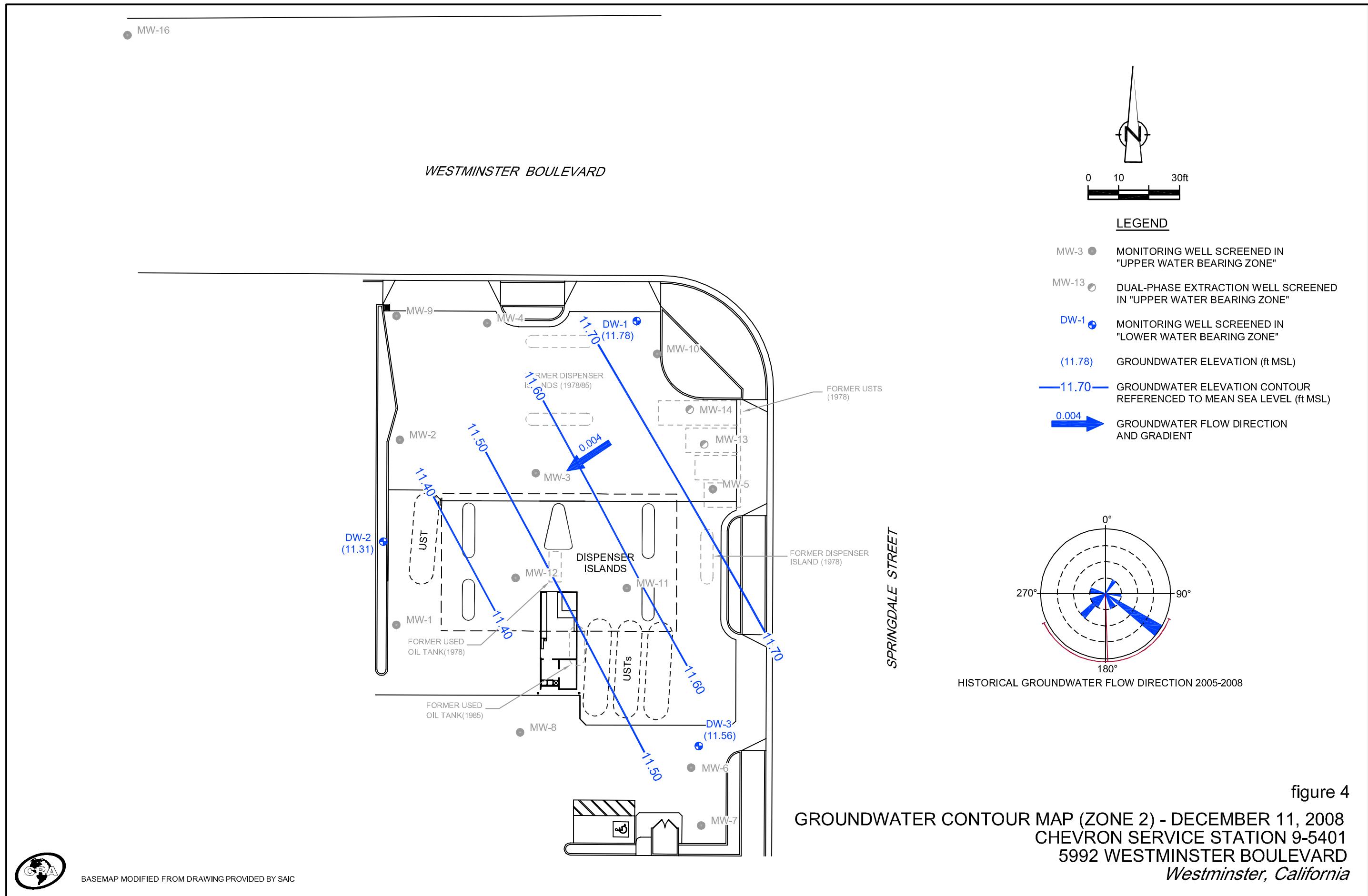


figure 4

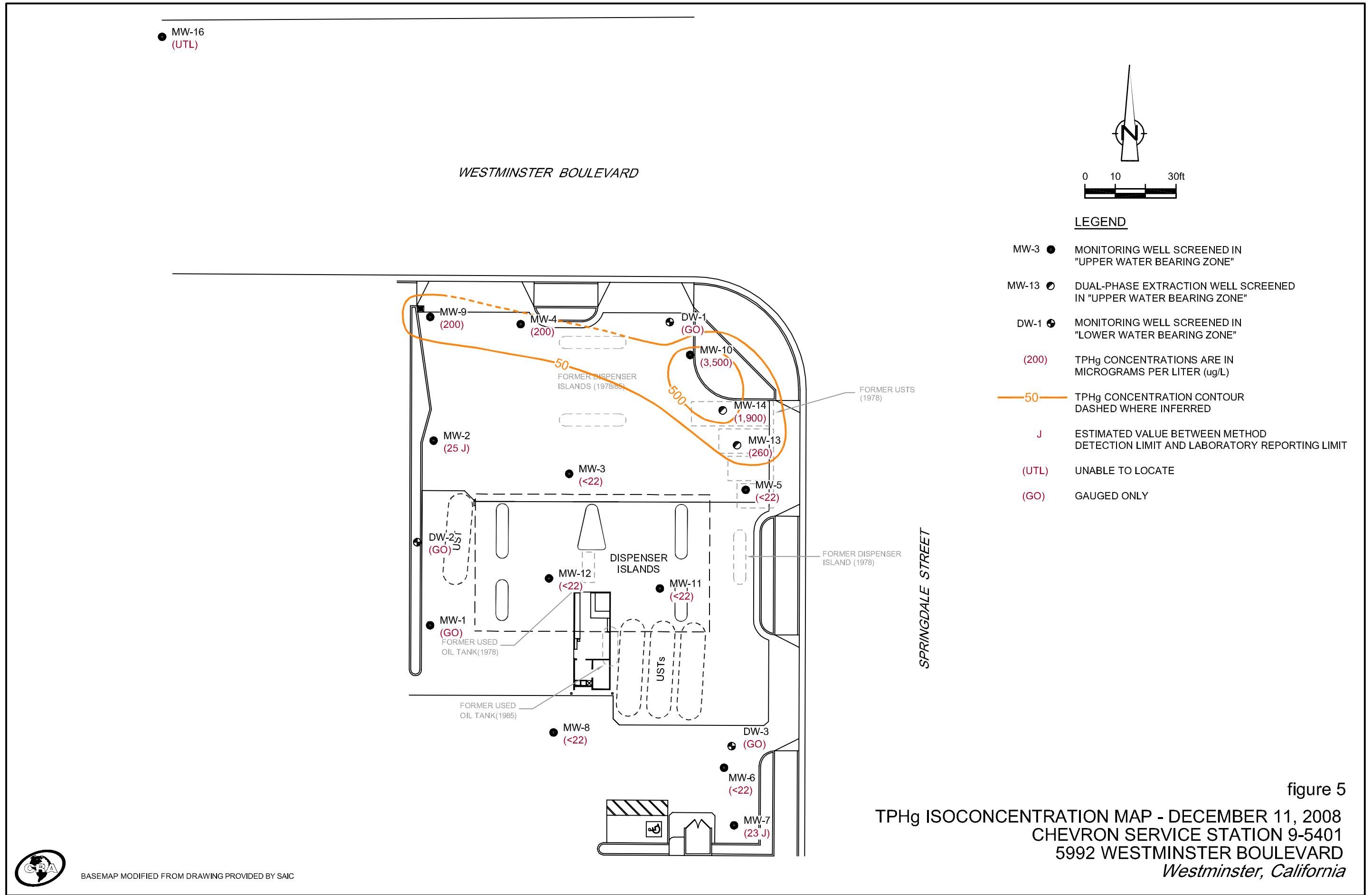
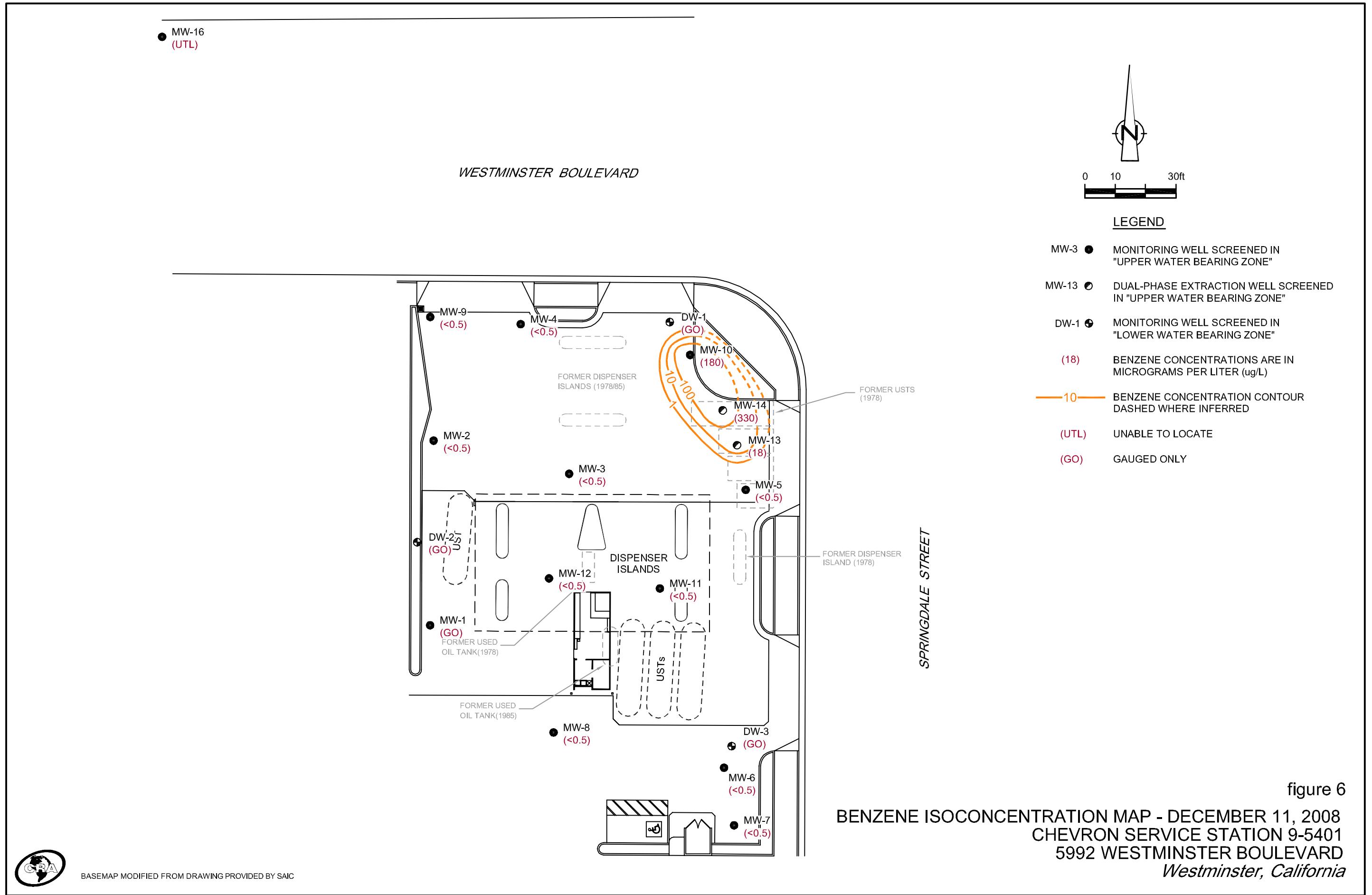
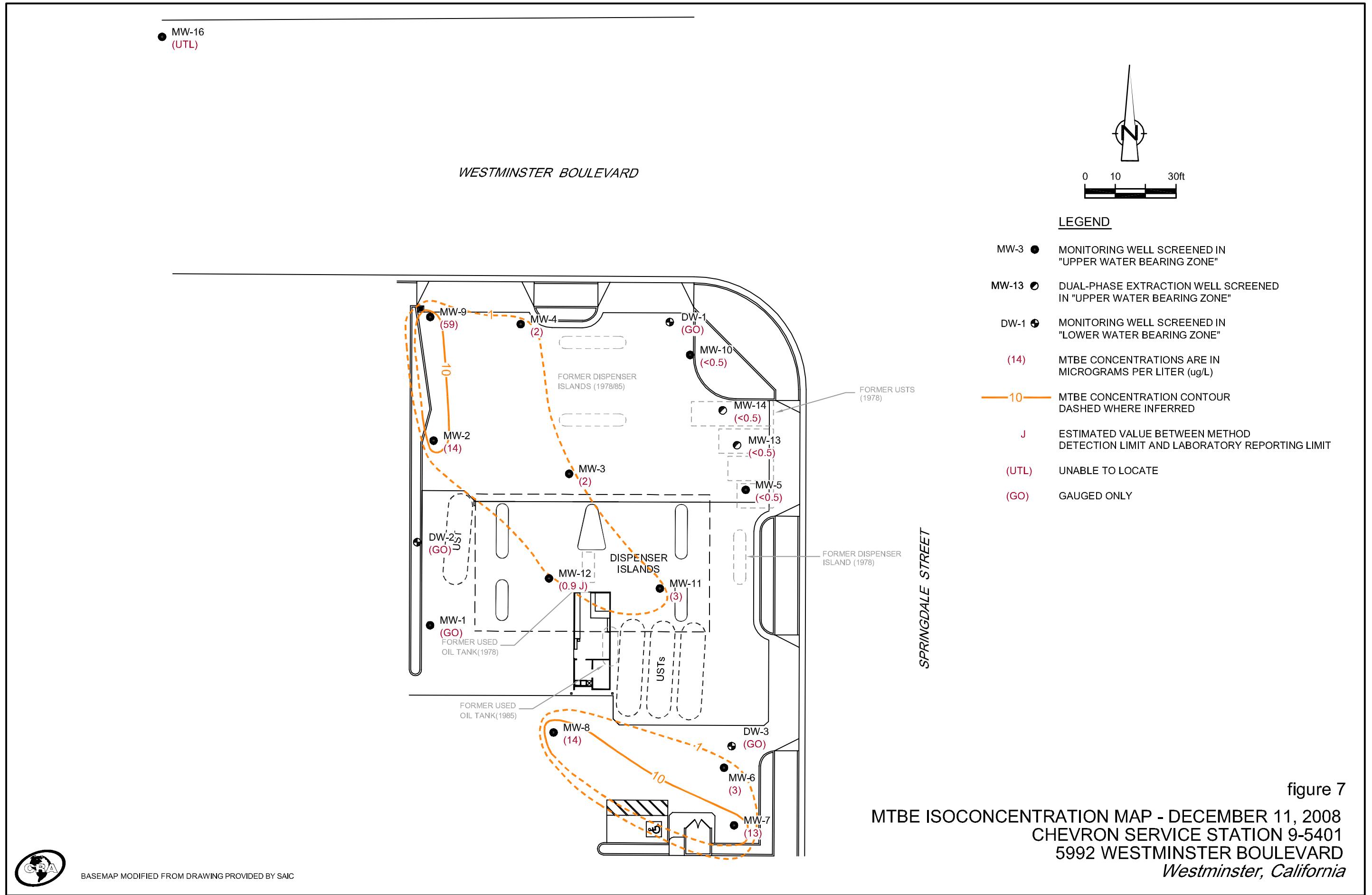
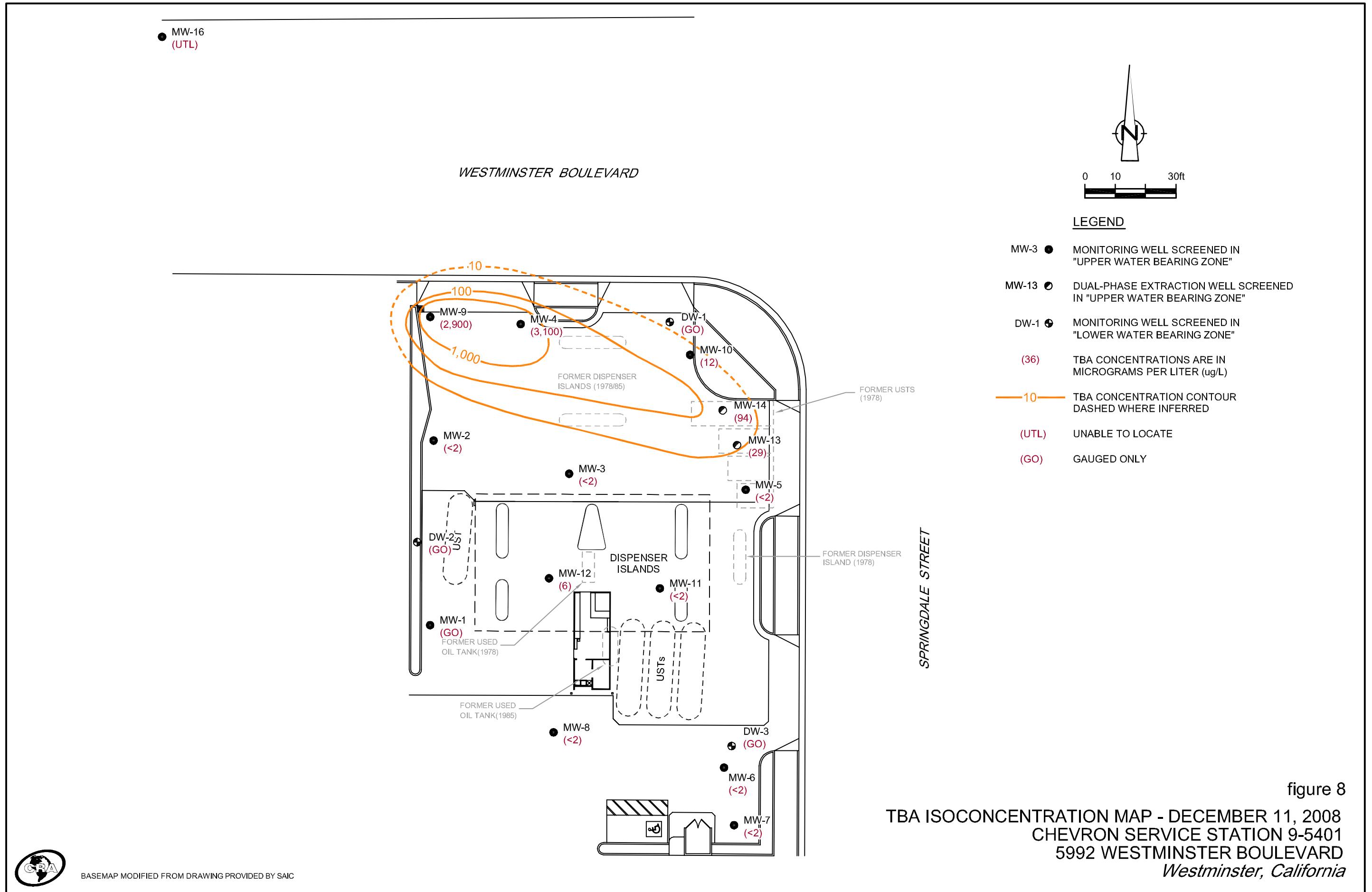
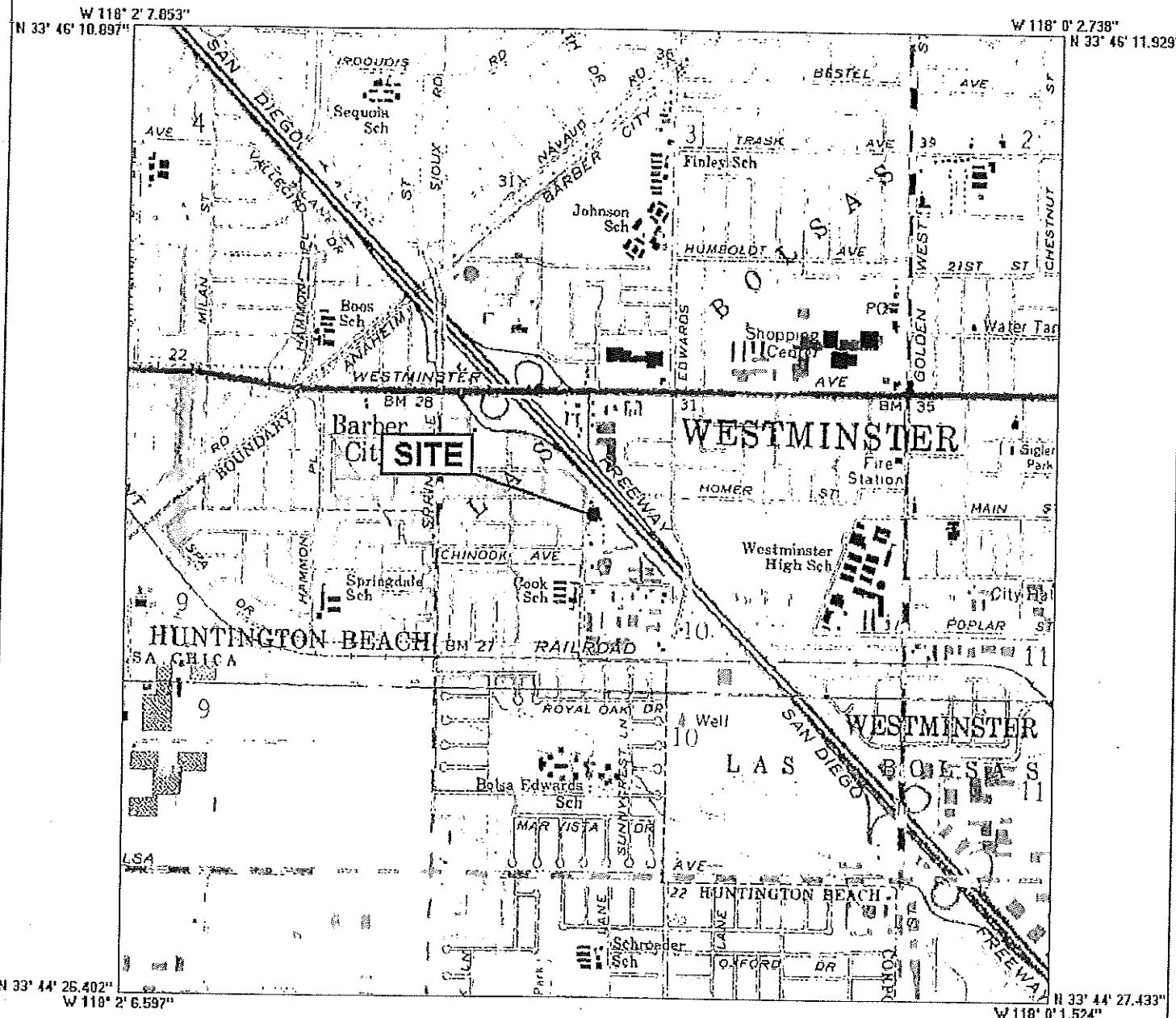


figure 5







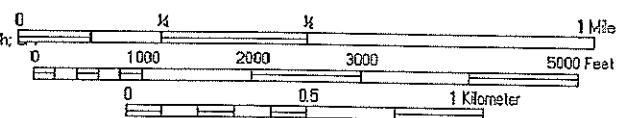


1927 North American Datum; 1,000-meter UTM grid zone 11

Generated by BigTopo ([www.igage.com](http://www.igage.com))

Map compiled from USGS Quads: Los Al

10000000 quads. Eastman, CA Seal Beach,



NORTH

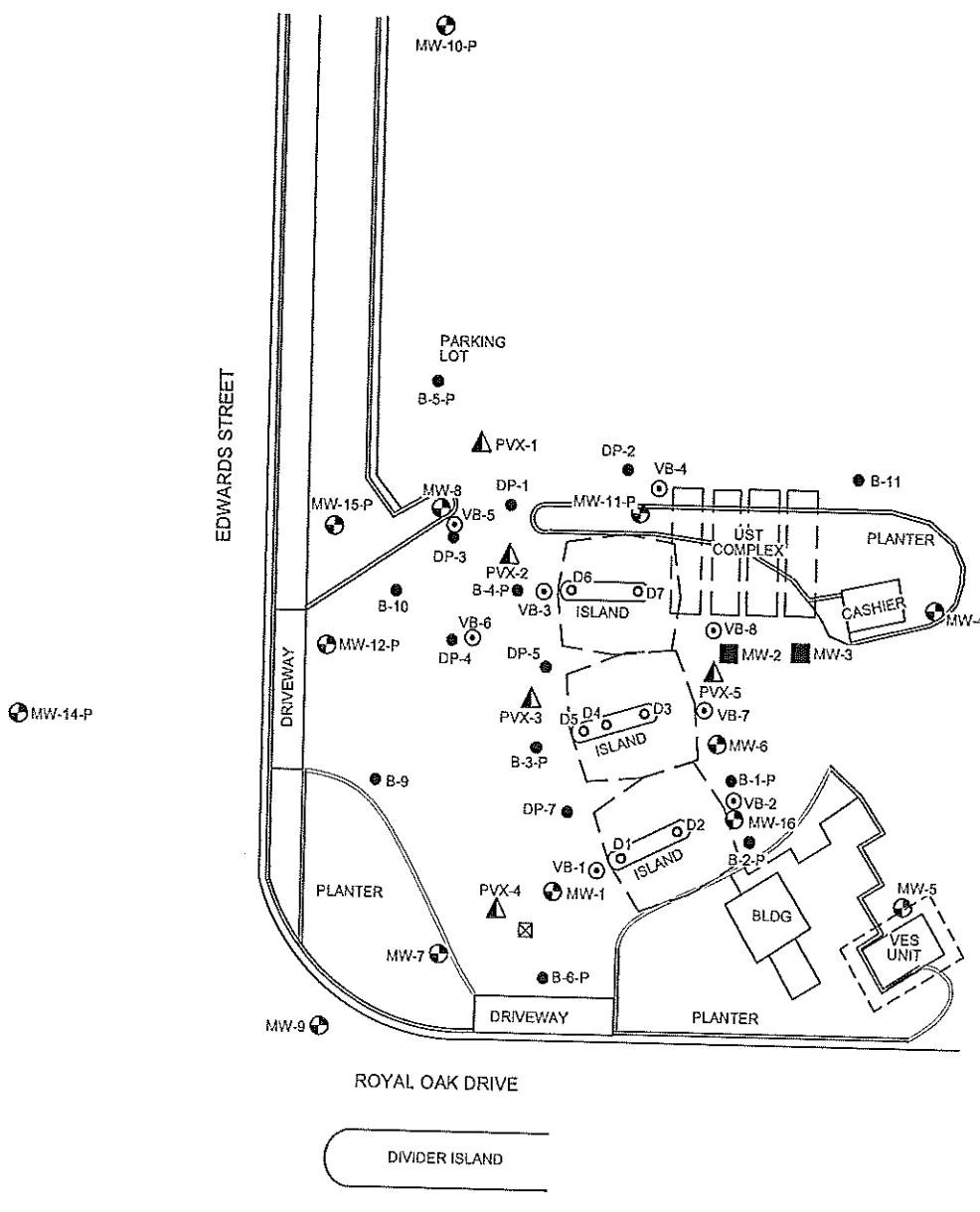
## **FIGURE 1**

### **SITE LOCATION MAP**

USA GASOLINE STATION #141  
14600 EDWARDS STREET  
WESTMINSTER, CALIFORNIA

PROJECT NO. 1007-1460-1

**STRATUS**  
ENVIRONMENTAL, INC.



#### LEGEND

- MW-1 GROUNDWATER MONITORING WELL LOCATION
- PVX-1 DUAL PHASE/VAPOR EXTRACTION WELL LOCATION
- MW-2 ABANDONED MONITORING WELL LOCATION
- APPROXIMATE RECOVERY WELL LOCATION
- B-9 APPROXIMATE SOIL BORING LOCATION
- D1 APPROXIMATE DISPENSER SOIL SAMPLE LOCATION
- VB-1 VERIFICATION BORING LOCATION

NOTE: LOCATIONS OF FEATURES ARE APPROXIMATE

Bum

